These immense changes are shadowed though verv faintly, by changes that we may ing at the present day. The members of family no exactly alike thev are show variations. or fluctuations!" sufficiently pronounced one individual off from another. These fluctuations result in some measure from blending the in various proportions of the traits of father's the and the mother's stock but there is helieve that they are also due to a spontaneous tendency to vary which is inherent in Life. have heen observed Variations amonast. unicellular organisms which have come into being bv simple cell division. There occur moreover. other more substantial variations to which 📕 mutation 📕 has been attached. These are verv noticeable indeed. Such is a red blossom in a bed of white-flowered plants а chicken with feathers. Thev reversed commonly as sports and are of not infrequent occurrence amongst domesticated animals and plants. Darwin admitted these mutations his scheme, but relied for the most part fluctuations which, although far less momentous are of universal occurrence. **Both** mutations and fluctuations might be useful or useless one that was useful assisted the organisms bore in the struggle for life, enabled them t.o outvie their competitors procreate and

in which vouna the fluctuation would be a settled trait. hereditary Amonast the fluctuations to which the offspring were subject would be one which advanced trait towards greater completion: this would like manner become settled and in fashion. this during the lapse of ages. a minute piament might be developed into a complicated Fluctuations, normally spontaneous (so speak) accidental, might in some cases be pur-